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L3	15	703/7.ccls. and @pd>"20050915"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/01/25 11:23
L4	547	(robot\$1 or agent\$1) and simulation\$1 and ((data adj flow) or dataflow) and @ad<"20011101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/01/25 11:24



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An environment for operational software engineering in Ada

M. Baldassari, G. Bruno

January 1989 Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment

Publisher: ACM Press

Full text available: pdf(1.95 MB)

Additional Information: full citation, abstract, references, index terms

This paper presents PROTOB, an object-oriented methodology and CASE system based on an extended dataflow model defined using PROT nets. It consists of several tools supporting specification, modelling and prototyping activities within the framework of the operational software life cycle paradigm. As its major application area it addresses distributed systems, such as real-time embedded systems, communication protocols and manufacturing control systems. The system automatically generates the ...

Drawings on napkins, video-game animation, and other ways to program computers

Ken Kahn

August 1996 Communications of the ACM, Volume 39 Issue 8

Publisher: ACM Press

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3 Computer assisted application definition



Martin Mikelsons

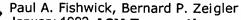
January 1975 Proceedings of the 2nd ACM SIGACT-SIGPLAN symposium on Principles of programming languages

Publisher: ACM Press

Full text available: Topdf(875.01 KB) Additional Information: full citation, abstract, references, citings

This paper describes a system being developed to bridge the gap between an application program and a user inexperienced in the ways of computers. The user explores the characteristics of the available programs by a natural language dialogue with the system. The dialogue is supported by a knowledge base covering both the program semantics and the application domain. This paper addresses the problems of representation and inference involved in this approach and describes our solution for them.

A multimodel methodology for qualitative model engineering



January 1992 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(1.93 MB)

Additional Information: full citation, abstract, references, citings, index

terms

Qualitative models arising in artificial intelligence domain often concern real systems that

are difficult to represent with traditional means. However, some promise for dealing with such systems is offered by research in simulation methodology. Such research produces models that combine both continuous and discrete-event formalisms. Nevertheless, the aims and approaches of the AI and the simulation communities remain rather mutually ill understood. Consequently, there is a need to bridge t ...

Keywords: abstraction levels, combined simulation, homomorphism, multimodeling, qualitative simulation, systems theory

5 Loading databases using dataflow parallelism

Tom Barclay, Robert Barnes, Jim Gray, Prakash Sundaresan December 1994 ACM SIGMOD Record, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, citings, index terms

This paper describes a parallel database load prototype for Digital's Rdb database product. The prototype takes a dataflow approach to database parallelism. It includes an *explorer* that discovers and records the cluster configuration in a database, a *client* CUI interface that gathers the load job description from the user and from the Rdb catalogs, and an *optimizer* that picks the best parallel execution plan and records it in a *web* data structure. The web describes th ...

6 What have we learnt from using real parallel machines to solve real problems?

G. C. Fox

January 1989 Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2

Publisher: ACM Press

Full text available: pdf(4.08 MB)

Additional Information: full citation, abstract, references, citings, index terms

We briefly review some key scientific and parallel processing issues in a selection of some 84 existing applications of parallel machines. We include the MIMD hypercube transputer array, BBN Butterfly, and the SIMD ICL DAP, Goodyear MPP and Connection Machine from Thinking Machines. We use a space-time analogy to classify problems and show how a division into synchronous, loosely synchronous and asynchronous problems is helpful. This classifies problems into those suitable for SIMD or MIMD ...

7 A hybrid numeric/symbolic program for checking functional and timing compatibility of

synthesized designs
Chih Tung Chen, Alice C. Parker

May 1994 Proceedings of the 7th international symposium on High-level synthesis

Publisher: IEEE Computer Society Press

Full text available: pdf(588.17 KB) Additional Information: full citation, references

8 Evolving virtual creatures

Karl Sims

July 1994 Proceedings of the 21st annual conference on Computer graphics and interactive techniques

Publisher: ACM Press

Full text available: pdf(84.65 KB)
Additional Information: full citation, abstract, references, citings, index terms

This paper describes a novel system for creating virtual creatures that move and behave in simulated three-dimensional physical worlds. The morphologies of creatures and the neural systems for controlling their muscle forces are both generated automatically using genetic algorithms. Different fitness evaluation functions are used to direct simulated evolutions towards specific behaviors such as swimming, walking, jumping, and following. A genetic language is presented that uses no ...

Rachid Helaihel, Kunle Olukotun

November 1997 Proceedings of the 1997 IEEE/ACM international conference on Computer-aided design

Publisher: IEEE Computer Society

Full text available: pdf(46.54 KB)

Additional Information: full citation, abstract, references, citings, index

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The specification language is a critical component of the hardware-software co-design process since it is used for functional validation and as a starting point for hardware-software partitioning and co-synthesis. This paper pro poses the Java programming language as a specification language for hardware-software systems. Java has several characteristics that make it suitable for system specification. However, static control and dataflow analysis of Java programs is problematic because Java cla ...

Keywords: java, specification languages, hardware-software co-design

10 HPTS: a behaviour modelling language for autonomous agents

Stéphane Donikian

May 2001 Proceedings of the fifth international conference on Autonomous agents

Publisher: ACM Press

Full text available: pdf(920.14 KB)

Additional Information: full citation, abstract, references, citings, index terms

Behavioural models offer the ability to simulate autonomous agents like organisms and living beings. Psychological studies have shown that human behaviour can be described by a perception-decision-action loop, in which the decisional process should integrate several programming para\-digms such as real-time, concurrency, and hierarchy. Building such systems for interactive simulation requires the design of a reactive system treating flows of data to and from the environment, and involving ...

Keywords: agent architectures, behaviour modelling language, believability, synthetic agents

11 Distributed artificial intelligence: an annotated bibliography

V. Jagannathan, Rajendra Dodhiawala
January 1986 ACM SIGART Bulletin, Issue 95

Publisher: ACM Press

Full text available: pdf(1.51 MB) Additional Information: full citation

12 Computing as a discipline

D. E. Comer, David Gries, Michael C. Mulder, Allen Tucker, A. Joe Turner, Paul R. Young February 1989 Communications of the ACM, Volume 32 Issue 1

Publisher: ACM Press

Full text available: pdf(1.68 MB)

Additional Information: full citation, abstract, references, citings, index terms

The final report of the Task Force on the Core of Computer Science presents a new intellectual framework for the discipline of computing and a new basis for computing curricula. This report has been endorsed and approved for release by the ACM Education Board.

13 COAST: the controller's assistant

William H. Duquette

December 1993 Proceedings of the 25th conference on Winter simulation

Publisher: ACM Press

Full text available: pdf(427.55 KB) Additional Information: full citation



"Topologies"—distributed objects on multicomputers

Karsten Schwan, Win Bo

May 1990 ACM Transactions on Computer Systems (TOCS), Volume 8 Issue 2

Publisher: ACM Press

Full text available: pdf(3.83 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Application programs written for large-scale multicomputers with interconnection structures known to the programmer (e.g., hypercubes or meshes) use complex communication structures for connecting the applications' parallel tasks. Such structures implement a wide variety of functions, including the exchange of data or control information relevant to the task computations and/or the communications required for task synchronization, message forwarding/filtering under program control, and so o ...

15 The future of high performance computers in science and engineering

C. Gordon Bell

September 1989 Communications of the ACM, Volume 32 Issue 9

Publisher: ACM Press

Full text available: pdf(1.27 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A vast array of new, highly parallel machines are opening up new opportunities for new applications and new ways of computing.

16 Design methodology for PicoRadio networks

J. da Silva, J. Shamberger, M. Ammer, C. Guo, S. Li, R. Shah, T. Tuan, M. Sheets, J. Rabaey, B. Nikolic, A. Sangiovanni-Vincentelli, P. Wright

March 2001 Proceedings of the conference on Design, automation and test in Europe

Publisher: IEEE Press

Full text available: pdf(328.60 KB) Additional Information: full citation, references, index terms

17 Programming languages for distributed computing systems

Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum

September 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(6.50 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

When distributed systems first appeared, they were programmed in traditional sequential languages, usually with the addition of a few library procedures for sending and receiving messages. As distributed applications became more commonplace and more sophisticated, this ad hoc approach became less satisfactory. Researchers all over the world began designing new programming languages specifically for implementing distributed applications. These languages and their history, their underlying pr ...

18 Strategic directions in constraint programming



Pascal Van Hentenryck, Vijay Saraswat

December 1996 ACM Computing Surveys (CSUR), Volume 28 Issue 4

Publisher: ACM Press

Full text available: pdf(402.08 KB) Additional Information: full citation, references, citings, index terms

19 The Apiary network architecture for knowledgeable systems



Carl Hewitt

August 1980 Proceedings of the 1980 ACM conference on LISP and functional programming

Publisher: ACM Press

Full text available: pdf(884.30 KB) Additional Information: full citation, abstract, references, citings, index

Creating more knowledgeable computer systems will require vastly increased

computational resources. We are working on the development of a computer architecture (called the Apiary) to meet this need. In this paper we present an overview of the Apiary introducing important concepts and techniques such as Interest groups. Jeff Schiller has constructed a preliminary implementation of the network software for the Apiary on the CADR Distributed System at the MIT Artificia ...

20 Stochastic processes as concurrent constraint programs

Vineet Gupta, Radha Jagadeesan, Prakash Panangaden

January 1999 Proceedings of the 26th ACM SIGPLAN-SIGACT symposium on Principles of programming languages

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An environment for operational software engineering in Ada



M. Baldassari, G. Bruno

January 1989 Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment

Publisher: ACM Press

Full text available: pdf(1.95 MB)

Additional Information: full citation, abstract, references, index terms

This paper presents PROTOB, an object-oriented methodology and CASE system based on an extended dataflow model defined using PROT nets. It consists of several tools supporting specification, modelling and prototyping activities within the framework of the operational software life cycle paradigm. As its major application area it addresses distributed systems, such as real-time embedded systems, communication protocols and manufacturing control systems. The system automatically generates the ...

Drawings on napkins, video-game animation, and other ways to program computers



Ken Kahn

August 1996 Communications of the ACM, Volume 39 Issue 8

Publisher: ACM Press

Full text available: pdf(1.64 MB)

Additional Information: full citation, references, citings, index terms

3 Computer assisted application definition



Martin Mikelsons

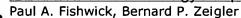
January 1975 Proceedings of the 2nd ACM SIGACT-SIGPLAN symposium on Principles of programming languages

Publisher: ACM Press

Full text available: pdf(875.01 KB) Additional Information: full citation, abstract, references, citings

This paper describes a system being developed to bridge the gap between an application program and a user inexperienced in the ways of computers. The user explores the characteristics of the available programs by a natural language dialogue with the system. The dialogue is supported by a knowledge base covering both the program semantics and the application domain. This paper addresses the problems of representation and inference involved in this approach and describes our solution for them.

A multimodel methodology for qualitative model engineering



January 1992 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 2 Issue 1

Publisher: ACM Press

Full text available: T pdf(1.93 MB)

Additional Information: full citation, abstract, references, citings, index

terms

Qualitative models arising in artificial intelligence domain often concern real systems that

are difficult to represent with traditional means. However, some promise for dealing with such systems is offered by research in simulation methodology. Such research produces models that combine both continuous and discrete-event formalisms. Nevertheless, the aims and approaches of the AI and the simulation communities remain rather mutually ill understood. Consequently, there is a need to bridge t ...

Keywords: abstraction levels, combined simulation, homomorphism, multimodeling, qualitative simulation, systems theory

5 Loading databases using dataflow parallelism

Tom Barclay, Robert Barnes, Jim Gray, Prakash Sundaresan December 1994 **ACM SIGMOD Record**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, citings, index terms

This paper describes a parallel database load prototype for Digital's Rdb database product. The prototype takes a dataflow approach to database parallelism. It includes an *explorer* that discovers and records the cluster configuration in a database, a *client* CUI interface that gathers the load job description from the user and from the Rdb catalogs, and an *optimizer* that picks the best parallel execution plan and records it in a *web* data structure. The web describes th ...

6 What have we learnt from using real parallel machines to solve real problems?

G. C. Fox

January 1989 Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2

Publisher: ACM Press

Full text available: pdf(4.08 MB)

Additional Information: full citation, abstract, references, citings, index terms

We briefly review some key scientific and parallel processing issues in a selection of some 84 existing applications of parallel machines. We include the MIMD hypercube transputer array, BBN Butterfly, and the SIMD ICL DAP, Goodyear MPP and Connection Machine from Thinking Machines. We use a space-time analogy to classify problems and show how a division into synchronous, loosely synchronous and asynchronous problems is helpful. This classifies problems into those suitable for SIMD or MIMD ...

7 A hybrid numeric/symbolic program for checking functional and timing compatibility of synthesized designs

Chih Tung Chen, Alice C. Parker

May 1994 Proceedings of the 7th international symposium on High-level synthesis

Publisher: IEEE Computer Society Press

Full text available: pdf(588.17 KB) Additional Information: full citation, references

8 Evolving virtual creatures

Karl Sims

July 1994 Proceedings of the 21st annual conference on Computer graphics and interactive techniques

Publisher: ACM Press

Full text available: pdf(84.65 KB)
Additional Information: full citation, abstract, references, citings, index terms

This paper describes a novel system for creating virtual creatures that move and behave in simulated three-dimensional physical worlds. The morphologies of creatures and the neural systems for controlling their muscle forces are both generated automatically using genetic algorithms. Different fitness evaluation functions are used to direct simulated evolutions towards specific behaviors such as swimming, walking, jumping, and following. A genetic language is presented that uses no ...

Rachid Helaihel, Kunle Olukotun

November 1997 Proceedings of the 1997 IEEE/ACM international conference on Computer-aided design

Publisher: IEEE Computer Society

Full text available: pdf(46.54 KB)

Additional Information: full citation, abstract, references, citings, index

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The specification language is a critical component of the hardware-software co-design process since it is used for functional validation and as a starting point for hardware-software partitioning and co-synthesis. This paper pro poses the Java programming language as a specification language for hardware-software systems. Java has several characteristics that make it suitable for system specification. However, static control and dataflow analysis of Java programs is problematic because Java cla ...

Keywords: java, specification languages, hardware-software co-design

10 HPTS: a behaviour modelling language for autonomous agents

Stéphane Donikian

May 2001 Proceedings of the fifth international conference on Autonomous agents

Publisher: ACM Press

Full text available: pdf(920.14 KB)

Additional Information: full citation, abstract, references, citings, index terms

Behavioural models offer the ability to simulate autonomous agents like organisms and living beings. Psychological studies have shown that human behaviour can be described by a perception-decision-action loop, in which the decisional process should integrate several programming para\-digms such as real-time, concurrency, and hierarchy. Building such systems for interactive simulation requires the design of a reactive system treating flows of data to and from the environment, and involving ...

Keywords: agent architectures, behaviour modelling language, believability, synthetic agents

11 Distributed artificial intelligence: an annotated bibliography

V. Jagannathan, Rajendra Dodhiawala

January 1986 ACM SIGART Bulletin, Issue 95

Publisher: ACM Press

Full text available: pdf(1.51 MB)

Additional Information: full citation

12 Computing as a discipline

D. E. Comer, David Gries, Michael C. Mulder, Allen Tucker, A. Joe Turner, Paul R. Young February 1989 Communications of the ACM, Volume 32 Issue 1

Publisher: ACM Press

Full text available: pdf(1.68 MB)

Additional Information: full citation, abstract, references, citings, index terms

The final report of the Task Force on the Core of Computer Science presents a new intellectual framework for the discipline of computing and a new basis for computing curricula. This report has been endorsed and approved for release by the ACM Education Board.

13 COAST: the controller's assistant

William H. Duquette

December 1993 Proceedings of the 25th conference on Winter simulation

Publisher: ACM Press

Full text available: pdf(427.55 KB) Additional Information: full citation



"Topologies"—distributed objects on multicomputers

Karsten Schwan, Win Bo

May 1990 ACM Transactions on Computer Systems (TOCS), Volume 8 Issue 2

Publisher: ACM Press

Full text available: pdf(3.83 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Application programs written for large-scale multicomputers with interconnection structures known to the programmer (e.g., hypercubes or meshes) use complex communication structures for connecting the applications' parallel tasks. Such structures implement a wide variety of functions, including the exchange of data or control information relevant to the task computations and/or the communications required for task synchronization, message forwarding/filtering under program control, and so o ...

15 The future of high performance computers in science and engineering

© C. Gordon Bell

September 1989 Communications of the ACM, Volume 32 Issue 9

Publisher: ACM Press

Full text available: pdf(1.27 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A vast array of new, highly parallel machines are opening up new opportunities for new applications and new ways of computing.

16 Design methodology for PicoRadio networks

J. da Silva, J. Shamberger, M. Ammer, C. Guo, S. Li, R. Shah, T. Tuan, M. Sheets, J. Rabaey, B. Nikolic, A. Sangiovanni-Vincentelli, P. Wright

March 2001 Proceedings of the conference on Design, automation and test in Europe

Publisher: IEEE Press

Full text available: R pdf(328.60 KB) Additional Information: full citation, references, index terms

17 Programming languages for distributed computing systems



Henri E. Bal, Jennifer G. Steiner, Andrew S. Tanenbaum

September 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(6.50 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

When distributed systems first appeared, they were programmed in traditional sequential languages, usually with the addition of a few library procedures for sending and receiving messages. As distributed applications became more commonplace and more sophisticated, this ad hoc approach became less satisfactory. Researchers all over the world began designing new programming languages specifically for implementing distributed applications. These languages and their history, their underlying pr ...

18 Strategic directions in constraint programming



Pascal Van Hentenryck, Vijay Saraswat

December 1996 ACM Computing Surveys (CSUR), Volume 28 Issue 4

Publisher: ACM Press

Full text available: Top pdf(402.08 KB) Additional Information: full citation, references, citings, index terms

19 The Apiary network architecture for knowledgeable systems



Carl Hewitt

August 1980 Proceedings of the 1980 ACM conference on LISP and functional programming

Publisher: ACM Press

Full text available: pdf(884.30 KB)

Additional Information: full citation, abstract, references, citings, index

Creating more knowledgeable computer systems will require vastly increased

computational resources. We are working on the development of a computer architecture (called the Apiary) to meet this need. In this paper we present an overview of the Apiary introducing important concepts and techniques such as Interest groups. Jeff Schiller has constructed a preliminary implementation of the network software for the Apiary on the CADR Distributed System at the MIT Artificia ...

20 Stochastic processes as concurrent constraint programs

Vineet Gupta, Radha Jagadeesan, Prakash Panangaden

January 1999 Proceedings of the 26th ACM SIGPLAN-SIGACT symposium on Principles of programming languages

Publisher: ACM Press

Full text available: pdf(2.12 MB)

Additional Information: full citation, references, citings, index terms

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Relevance scale

1 Research directions in virtual environments: report of an NSF Invitational Workshop, March 23-24, 1992, University of North Carolina at Chapel Hill

Gary Bishop, Henry Fuchs

August 1992 ACM SIGGRAPH Computer Graphics, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(2.33 MB)

Additional Information: full citation, citings, index terms

2 A hybrid numeric/symbolic program for checking functional and timing compatibility of synthesized designs

Chih Tung Chen, Alice C. Parker

May 1994 Proceedings of the 7th international symposium on High-level synthesis

Publisher: IEEE Computer Society Press

Full text available: pdf(588.17 KB) Additional Information: full citation, references

3 The ControlShell component-based real-time programming system, and its

application to the Marsokhod Martian Rover

Stan Schneider, Vincent Chen, Jay Steele, Gerardo Pardo-Castellote

November 1995 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1995 workshop on Languages, compilers, & tools for real-time systems LCTES '95, Volume 30 Issue 11

Publisher: ACM Press

Full text available: pdf(1.39 MB)

Additional Information: full citation, abstract, references, index terms

Real-time system software is notoriously hard to share and reuse. This paper walks through the methodology and application of ControlShell, a component-based programming system for real-time system software development. ControlShell combines graphical system-building tools, an execution-time configuration manager, a real-time matrix package, and an object name service into an integrated development environment. It targets complex systems that require on-line reconfiguration and strategic control ...

4 A real world object modeling method for creating simulation environment of real-time



systems

Ji Y. Lee, Hye J. Kim, Kyo C. Kang

October 2000 ACM SIGPLAN Notices, Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '00, Volume 35 Issue 10

Publisher: ACM Press

Full text available: pdf(405.18 KB)

Additional Information: full citation, abstract, references, citings, index

<u>terms</u>

Most real-time embedded control software feature complex interactions with asynchronous inputs and environment objects, and a meaningful simulation of a real-time control software specification requires realistic simulation of its environment. Two problems that need to be addressed in the simulation of a target software system and its environment: First, integration and simulation of the specifications of a target software system and its artificial environment are often performed too late in the ...

Keywords: real-time control software, requirement specification, simulation, validation, verification

5 Future of simulation: Interactive simulation using virtual systems: web based robot simulation using VRML

Martin Rohrmeier

December 2000 Proceedings of the 32nd conference on Winter simulation

Publisher: Society for Computer Simulation International

Full text available: pdf(320.46 KB) Additional Information: full citation, abstract, references

The Virtual Reality Modeling Language (VRML) enables the integration of interactive 3D graphics into the web. At the German Aerospace Center we have been using the new language in robotic applications from its beginning on. The shown project is an example of the possibilities of using it in web-based simulations. Specialized and expensive hardor software is not needed, any web browser with a vrml viewer is able to run the program which makes the application independent from any underlying hardwa ...

6 Object oriented simulation with SMALLTALK-80: a case study

Jocelyn R. Drolet, Colin L. Moodie, Benoit Montreuil

December 1991 Proceedings of the 23rd conference on Winter simulation

Publisher: IEEE Computer Society

Full text available: 📆 pdf(917.90 KB) Additional Information: full citation, references, index terms

Keywords: SmallTalk, cell, modeling, object, simulation, virtual

7 Implementation of the data-flow synchronous language SIGNAL

Pascalin Amagbégnon, Loïc Besnard, Paul Le Guernic

June 1995 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1995 conference on Programming language design and implementation PLDI '95, Volume 30

Issue 6
• ACM Press

Publisher: ACM Press

Full text available: pdf(1.03 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents the techniques used for the compilation of the data-flow, synchronous language SIGNAL. The key feature of the compiler is that it performs formal calculus on systems of boolean equations. The originality of the implementation of the compiler lies in the use of a tree structure to solve the equations.

8 Toward a real-time Ada design methodology

Norman R. Howes

December 1990 Proceedings of the conference on TRI-ADA '90

Publisher: ACM Press

Full text available: pdf(1.63 MB)

Additional Information: full citation, references, citings

9 Real-time hierarchically distributed processing network interaction simulation Wayne F. Zimmerman, Chung-I Wu

January 1988 Proceedings of the 21st annual symposium on Simulation

Publisher: IEEE Computer Society Press

Full text available: pdf(1.26 MB)

Additional Information: full citation, abstract, references, index terms

The Telerobot Testbed is a hierarchically distributed processing system which is linked together through a standard, commercial Ethernet. Standard Ethernet systems are primarily designed to manage non-real-time information transfer. Therefore, collisions on the net (i.e., two or more sources attempting to send data at the same time) are managed by randomly rescheduling one of the sources to retransmit at a later time interval. Although acceptable for transmitting noncritical data such as ma ...

10 Hierarchical decomposition and simulation of manufacturing cells

Charles J. Antonelli, Richard A. Volz, Trevor N. Mudge

January 1984 Proceedings of the 16th conference on Winter simulation

Publisher: IEEE Press

Full text available: pdf(776.02 KB) Additional Information: full citation, abstract, references, index terms

A useful tool in the development of flexible automation is a system description language which can generate complete functional description of a manufacturing cell of arbitrary complexity. We propose a description system based on the concept of hierarchical decomposition utilizing the Ada1 programming language in conjunction with established diagrammatical decomposition methods. Simulation is often an indispensable tool in the development of manufacturing systems. We sh ...

Keywords: Functional description, Hierarchical decomposition, Manufacturing cell simulation, System description language

11 An environment for operational software engineering in Ada

M. Baldassari, G. Bruno

January 1989 Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment

Publisher: ACM Press

Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, index terms

This paper presents PROTOB, an object-oriented methodology and CASE system based on an extended dataflow model defined using PROT nets. It consists of several tools supporting specification, modelling and prototyping activities within the framework of the operational software life cycle paradigm. As its major application area it addresses distributed systems, such as real-time embedded systems, communication protocols and manufacturing control systems. The system automatically generates the ...

12 An integrated approach to system modeling using a synthesis of artificial intelligence,

software engineering and simulation methodologies

Paul A. Fishwick

October 1992 ACM Transactions on Modeling and Computer Simulation (TOMACS),
Volume 2 Issue 4

Publisher: ACM Press

Full text available: pdf(1.58 MB)

Additional Information: full citation, references, citings, index terms.

review

13 Software engineering of virtual worlds

G. Jounghyun Kim, Kyo Chul Kang, Hyejung Kim, Jiyoung Lee

November 1998 Proceedings of the ACM symposium on Virtual reality software and technology

Publisher: ACM Press

Full text available: 🔁 pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

14 An architectural design for digital objects

Paul A. Fishwick

December 1998 Proceedings of the 30th conference on Winter simulation

Publisher: IEEE Computer Society Press

Full text available: pdf(118.60 KB) Additional Information: full citation, references, citings, index terms

15 Software development of real-time systems

Hassan Gomaa

July 1986 Communications of the ACM, Volume 29 Issue 7

Publisher: ACM Press

Full text available: pdf(1.19 MB)

Additional Information: full citation, abstract, references, citings, index

terms, review

Concentrating on those aspects of software development peculiar to real-time systems, this collection of development methods and tools emphasizes incremental development; the testing of tusk interfaces during integration testing, as well as unit and partial integration testing on the development system; and the development of automated tools to assist in the testing process.

16 <u>Applying knowledge-based system design and simulation in information system</u> requirements determination

Kung-Chao Liu, Jerzy W. Rozenblit

December 1990 Proceedings of the 22nd conference on Winter simulation

Publisher: IEEE Press

Full text available: pdf(496.88 KB) Additional Information: full citation, references, index terms

17 Graphic modeling using heterogeneous hierarchical models

Victor T. Miller, Paul A. Fishwick

December 1993 Proceedings of the 25th conference on Winter simulation

Publisher: ACM Press

Full text available: pdf(620.20 KB) Additional Information: full citation, references, citings

18 Special issue: Al in engineering

D. Sriram, R. Joobbani

April 1985 ACM SIGART Bulletin, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

19 The new design: the changing role of industrial engineers in the design process

through the use of simulation

Deidra L. Donald, Nick Andreou, Jeffrey Abell, Robert J. Schreiber

December 1999 Proceedings of the 31st conference on Winter simulation: Simulation-

--a bridge to the future - Volume 1

Publisher: ACM Press

Full text available: pdf(62.21 KB) Additional Information: full citation, citings, index terms

20 Computer simulation of communications on the space station data management

system

J. R. Agre, J. A. Clarke, M. W. Atkinson, I. H. Shahnawaz

December 1987 Proceedings of the 19th conference on Winter simulation

Publisher: ACM Press

Full text available: pdf(1.32 MB)

Additional Information: full citation, abstract, references, index terms

A discrete event simulation model for performance evaluation of various alternatives in the design of the communication system on the Data Management System (DMS) of the space station has been developed. DMS.SIM, the SIMSCRIPT-based model of DMS consists of two components: (I) The communication architecture model of multiple, interconnected, fiber-optic, local area networks (LANs) where the LAN access protocol is either token-bus or a version of CSMA/CD with deterministic collision ...

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Dataflow Partitioning and Scheduling Algorithms for WASMII, a Virtual Hardware

A Takayama, Y Shibata, K Iwai, H Amano - FPL, 2000 - springerlink.com

... Results ofthe HDL simulation are shown in Fig. ... serial token transfer at 'robot',

'fpppp' and ... Dataflow Partitioning and Scheduling Algorithms for WASMII ...

Cited by 3 - Web Search - portal.acm.org

A programmer's assistant for a special-purpose dataflow language(MS Thesis)

AJ BLACK - 1985 - csa.com

... for a special-purpose dataflow language was designed and implemented. The motivation

for the effort was the need to construct a **robot simulation** facility which ...

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<u>Programmer's apprentice for a special-purpose robotics dataflow language.</u>

AJ BLACK, GB LAMONT, SK ROGERS - INTELLIGENT ROBOTS AND COMPUTER VISION., 1985, 1985 - csa.com Programmer's apprentice for a special-purpose robotics dataflow language. ... Assistant (GDA) designed to help researchers construct robot simulation models on a ...

Web Search - csa.com

A task-level robot programming language and its reactive execution

E Coste-Maniere, B Espiau, E Rutten - Proceedings of the 1992 IEEE International Conference on ..., 1992 - ieeexplore.ieee.org ... elements are actions in a general way, of which the **robot**-tasks presented here ... assistance in telerobotic [14], in which it was applied to **simulation**, based on ... Cited by 10 - Web Search - ieeexplore.ieee.org

Visual Programming for Robot Control

PT Cox, TJ Smedley - VL, 1998 - doi.ieeecomputersociety.org ... don't care" representation, used when we define rules for **robot** behaviour, constructed ... of sensor definitions and local operations is a logic/**dataflow** hybrid ... Cited by 6 - Web Search - doi.ieeecs.org - torch.cs.dal.ca - portal.acm.org - all 9 versions »

Specification and execution of multiagent missions

DC MacKenzie, JM Cameron, RC Arkin - 1995 - doi.ieeecs.org

... either drive the targeted vehicles or a suitable simulation. ... Each individual robot

is controlled by a single ... CNL is a hybrid dataflow language[12] using large ...

Cited by 20 - Web Search - doi.ieeecomputersociety.org - ieeexplore.ieee.org - portal.acm.org - all 7 versions »

Signal GT: implementing task preemption and time intervals in the synchronous dataflow language ...

E Rutten, F Martinez - Proc. of the 7 thEuromicro Workshop on Real Time Systems, ..., 1995 - doi.ieeecomputersociety.org ... level framework, and the tools of the SIGNAL environment for optimization, **simulation**

or proof ... Eg for a robot, tran- sitions can be made from a wall-following ...

Cited by 17 - Web Search - doi.ieeecs.org - ieeexplore.ieee.org - ieeexplore.ieee.org

Integrating Planning and Reacting in a Heterogeneous Asynchronous Architecture for Controlling Real- ...

E Gat - PROC TENTH NATL CONF ARTIF INTELL AAAI 92., AAAI, MENLO PARK ..., 1992 - flownet.com

... ALFA provides both **dataflow** and state-machine computational models ... operates in real time, and includes an accurate kinematic **simulation** of the **robot**, as well ...

Cited by 206 - View as HTML - Web Search - flownet.com - cs.biu.ac.il - csa.com

A Research Program for Autonomous Agent Behavior Specification and Analysis

TC Henderson, P Dalton, J Zachary - Proceeding of the IEEE International Symposium on ..., 1991 - ieeexplore.ieee.org ... specify the system in S/R (a **dataflow** automaton language ... and this combined with acc to the **robot**'s sensory ... it can be connected to either the **simulation** or to ... Cited by 2 - Web Search

RAC Bianchi, AHR Costa - RoboCup, 2001 - springerlink.com ... than hardware ap- proaches and hinder **robot** miniaturization. ... a simplified thresholding device using the **dataflow** method ... were tested using the **simulation** tool of ... Web Search - portal.acm.org

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